

## SEQUENCE LISTING

<110> TAKARA BIO INC.

<120> Enzyme for digesting sulfated fucan from seacucumber

<130> 663848

<150> JP 2002-180490

<151> 2002-06-20

<150> JP 2002-239843

<151> 2002-08-20

<160> 1

<210> 1

<211> 1521

<212> DNA

<213> Fucoidanobacter marinus SI-0098

<400> 1

```
agagtttgat cctggctcag aatgaacgct ggcggcgtgg ttcagacatg caagtcgaac   60
gggattgtct agttagcttg ctaattagac atgagagtgg cgaacgggtg cgtaacacgt  120
aaagaaccta cccttatgtg ggggatagct caccgaangg tgaattaata ccgcatgtgg  180
tctctcttca catgaagagt acactnaagc tggggacctt cgggcctggc gcatagggag  240
ggctttgcgg cctatcagct tgttggtgag gtaacggctc accaaggcaa agacnggtag  300
ctggtctgag aagatgatca gccacactgg aacttagaca cgggtccagac acctacgggt  360
ggcagcagtt tcgaatcttt cacaatgggc gaaagcctga tggagcaacg ccgcgtgggg  420
```

gatgaaggcc ttcgggttgt aaacccctgt caccaaggat aaaacgtaat ctattaatac 480  
 taggttgccct gatgtaactt ggagaggaag gagggtgctaa ctctgtgccg gcagccgcgg 540  
 taatacagag actccaagcg ttattcggat tcaactgggcg taaagggagc gcaggcggcc 600  
 agatgtgtca gaggtgaaat accgcagctt aactgtagaa ctgcctttga aactatcttg 660  
 ctagagtatc ggagaggtaa gcggaattcc aggtgtagca gtgaaatgcg tagatatctg 720  
 gaggaacacc aatggcgaag gcagcttact ggacgattac tgacgctcag gctcgaaagc 780  
 atggggagcg aaagggatta gatacccctg tagtccatgc cgtaaagctt gttcactagg 840  
 tatcgggaca ttcgaccgtc tcggtgtcga agctaacgcg ataagtgaac cgcctgagga 900  
 ctacggccgc aaggctaaaa ctcaaaggaa ttgacgggag cctgcacaag cgggtggagca 960  
 tgtggcttaa ttcgatgcaa cgcgaagaac cttacctagg cttgacatgc agtggaccgg 1020  
 ggcagagatg cccctttctct tcggagccgc tgcacagggtg ctgcatggct gtcgtcagct 1080  
 cgtgtcgtga gatgttttgt taagtccagc aacgagcgca acccctgccg ctagttgccg 1140  
 gcattaagtt ggggactcta gtgggacaaa ctctctctga gagggggaag gtggggacga 1200  
 cgtcaagtca gtatggccct tacgtctagg gctgcacacg tgctacaatg cccggtacag 1260  
 agggacgcga taccgcgagg tggagcaaata ccttaaagcc gggcccagtt cagattggag 1320  
 tctgcaactc gactccatga agttggaatc gctagtaatg gcgcatcagc tatggcgccg 1380  
 tgaatacggt cccaggcctt gtacacaccg cccgtcacgt tatggaagcc ggttttgccc 1440  
 gaagtatggt agctaaccgc caagggagcg gatgtcctaa ggtgaggctg gtaactggaa 1500  
 cgaagtcgta acaaggtagc c 1521